

GETILAN GPE/400 G

Crosslinked Polyethylene

Crosspolimeri S.p.A.

Message:

GETILAN is the trade-mark of our crosslinkable polythene.

GETILAN GPE/400 G is a medium density chemically crosslinkable compound for power insulation, suitable also for G7.

It is a conveniently grafted polythene able to react in presence of moisture and of a catalyst.

Normally we suggest our catalyst type MAC/202 or MAC/203 (suitable for extrusion temperature lower than 215/220°C)

REACTION BETWEEN GRAFTING AND CATALYST:

These two polythenes, separately stored, must be mixed before starting extrusion in the ratio:

GRAFTING/CATALYST 94/6

Certify : IEC 60502-1 XLPE, EPR/HEPR, CEI 2011 G7, HD 22-1 EI7

General Information			
Features	Crosslinkable		
Uses	Cable sheath		
Agency Ratings	CEI 2011 G7		
	HD 22.1 EI7		
	IEC 60502-1		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.925	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.20 - 0.60	g/10 min	ASTM D1238
Water absorption rate-24 hr(70°C)		g/m ²	IEC 60811
Thermoset ¹			IEC 60811
250°C	30	%	IEC 60811
Residual : 250°C	-5.0	%	IEC 60811
Head Temperature	210	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	18.0	MPa	IEC 60811
Tensile Strain (Break)	360	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 60811
127°C, 40 hr	9.0	%	IEC 60811
150°C, 168 hr	5.0	%	IEC 60811
Change in Tensile Strain at Break in Air			IEC 60811
127°C, 40 hr	-3.0	%	IEC 60811
150°C, 168 hr	-2.0	%	IEC 60811
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	BS 6622

Additional Information

CROSSLINKING:Crosslinking of the finished product is obtained by:
Immersion of the bobbin into hot water at 85/90°C for two hours (up to 3 mm thickness).
Steam treatment at 0.15 for bar 5/6 hours.
Faster ambient curing is possible depending from the atmospheric conditions.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160	°C
Cylinder Zone 2 Temp.	175	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 4 Temp.	200	°C
Die Temperature	225	°C

NOTE

1. 20 N/cm²

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